Trip Report
2001 Annual Inspection and Radiological Survey of the Piqua Nuclear Power Facility, Piqua, Ohio, Decommissioned Reactor Site

Summary

The Piqua Nuclear Power Facility was inspected on April 11, 2001. The site, a decommissioned nuclear power demonstration facility, is located at Piqua, Ohio, on the east bank of the Great Miami River. The site is in good physical condition. The annual radiological survey, performed in conjunction with the annual inspection, revealed no removable contamination at the 111 sample points. The only instrument reading that exceeded the minimum detectable activity was a floor drain with detectable beta activity. This is the same floor drain that has shown beta activity in the past. There is no requirement for a follow-up inspection.

1.0 Introduction

This report presents the results of the annual U.S. Department of Energy (DOE) inspection of the Piqua Nuclear Power Facility (PNPF) in Piqua, Ohio. This facility is assigned to the DOE Grand Junction Office (GJO) for long-term custody and care.

M. Widdop (Chief Inspector) and M. Reed (Assistant Inspector), both of MACTEC-ERS, the Technical Assistance and Remediation contractor at the DOE-GJO, conducted the inspection on April 11, 2001. Mr. W. J. Sommer, the Piqua Power Systems Director, was contacted during the inspection and was briefed on the results. A copy of this report will be forwarded to Mr. Sommer.

The purpose of the inspection was to confirm the integrity of the visible features of the facility and to confirm that no radiological hazards are present.

2.0 Inspection Results

The reactor containment building and an associated auxiliary building still stand and are used by the City of Piqua Municipal Power System as office, shop, and storage space. The inspectors walked around the outside of the facility to examine the exterior condition of the PNPF. The inspectors also inspected the facility interior looking for evidence of structural deterioration. Inspectors observed falling plaster and peeling paint at the bottom of the spiral staircase on the lowest accessible level, which might be evidence of water damage. Otherwise, the buildings are in good condition. No evidence of activities that might affect the integrity of the PNPF was observed either on site or off site in the immediate surrounding area. No follow-up inspection is required.

MACTEC-ERS staff performed the annual radiological survey of the interior of the reactor containment building, auxiliary building, and exterior areas. A total of 111 sample points were investigated for both removable and surface contamination using direct measurements and smears, and monitoring for alpha and beta-gamma activity. Gamma dose rates also were measured. Table 1 presents information on the instrumentation used to perform the survey. Background gamma dose rates, measured on the PNPF grounds, averaged 3 microrem per hour (µr/hr). General area gamma dose rates measured throughout the facility ranged from 2 to 6 µr/hr.

Table 1. Instrumentation for Radiological Survey

Type of Measurement	Radiation	Instruments Detector	Instruments Meter	Background	Correction Factor	Minimum Detectable Activity
Surface Activity	alpha	Ludlum Model 43-5/ #12869	Ludlum Model 12/ #11214	0 cpm	26	300 dpm/ 100 cm^2
Surface Activity	beta	Ludlum Model 44-9/ #13073	Ludlum Model 12/ #10602	60 cpm	26	1000 dpm/ 100 cm^2
Exposure Rate	gamma	N/A	Bicron Micro-rem/ #18369	3 µr/hr	N/A	1 µr/hr
Removable Activity	alpha	N/A	Protean WPC-9350/ #15686	0.00 cpm	Efficiency 31.94	1.70 dpm/ 100 cm^2
Removable Activity	beta	N/A	Protean WPC-9350/ #15686	4.20 cpm	Efficiency 50.66	7.72 dpm/ 100 cm^2

key: cpm = counts per minute; dpm = disintegrations per minute; cm^2 = centimeters squared; µr/hr = microrem per hour

Table 2 presents surface and removable activity results. No removable contamination was found. One sample point, the floor drain at the lowest level of the containment building, exhibited a direct beta reading of 11,440 disintegrations per minute per 100 square centimeters. This result is consistent with previous surveys. Most other readings were below the minimum detectable activity (MDA) level. The few readings that were above the MDA are attributed to statistical counting anomalies in the measurement of the smears taken to detect removable contamination.

Attached are the survey maps indicating the location of each direct measurement and smear. The maps also indicate the results of the gamma dose rate survey conducted at PNPF.

Table 2. Results of the 2001 Radiological Survey at the Piqua, Ohio, Decommissioned Reactor Site

Location/ Building	Elevation[a]	Direct/ Smear #	Direct Reading Activity dpm/100 cm^2		Removable Activity dpm/100 cm^2		Remarks
			Alpha	/ Beta	Alpha	/ Beta	
Outside	111 ft.	1	<MDA	<MDA	<MDA	<MDA	Under exhaust vent
Outside	111 ft.	2	<MDA	<MDA	<MDA	<MDA	Steel duct
Outside	111 ft.	3	<MDA	<MDA	<MDA	<MDA	Steel grate
Outside	111 ft.	4	<MDA	<MDA	<MDA	<MDA	Steel duct flange
Outside	111 ft.	5	<MDA	<MDA	<MDA	<MDA	HVAC on coils
Outside	111 ft.	6	<MDA	<MDA	<MDA	<MDA	On concrete platform
Outside	111 ft.	7	<MDA	<MDA	<MDA	<MDA	On concrete platform
Outside	111 ft.	8	<MDA	<MDA	<MDA	<MDA	On concrete platform
Outside	100 ft.	9	<MDA	<MDA	<MDA	<MDA	On concrete platform
Containment	56 ft.	10	<MDA	<MDA	<MDA	<MDA	Floor
Containment	56 ft.	11	<MDA	<MDA	<MDA	<MDA	Floor
Containment	56 ft.	12	<MDA	<MDA	<MDA	<MDA	Floor
Containment	56 ft.	13	<MDA	<MDA	1.88	<MDA	Floor
Containment	56 ft.	14	<MDA	<MDA	2.50	<MDA	Floor
Containment	56 ft.	15	<MDA	<MDA	<MDA	<MDA	Floor
Containment	56 ft.	16	<MDA	11,440	<MDA	<MDA	In drain
Containment	56 ft.	17	<MDA	<MDA	<MDA	<MDA	Floor
Containment	56 ft.	18	<MDA	<MDA	<MDA	<MDA	On pedestal
Containment	56 ft.	19	<MDA	<MDA	<MDA	<MDA	On drain
Containment	56 ft.	20	<MDA	<MDA	<MDA	<MDA	On HVAC unit
Containment	56 ft.	21	<MDA	<MDA	<MDA	<MDA	On sump grating
Containment	56 ft.	22	<MDA	<MDA	<MDA	<MDA	On drain
Containment	56 ft.	23	<MDA	<MDA	<MDA	<MDA	Floor
Containment	79 ft.	24	<MDA	<MDA	<MDA	<MDA	Floor
Containment	79 ft.	25	<MDA	<MDA	<MDA	<MDA	Floor
Containment	79 ft.	26	<MDA	<MDA	<MDA	<MDA	Floor
Containment	79 ft.	27	<MDA	<MDA	<MDA	<MDA	Floor
Containment	83 ft.	28	<MDA	<MDA	2.50	<MDA	On top of HVAC duct
Containment	83 ft.	29	<MDA	<MDA	<MDA	<MDA	Grating
Containment	83 ft.	30	<MDA	<MDA	<MDA	<MDA	Pipe adjacent to plenum
Containment	83 ft.	31	<MDA	<MDA	<MDA	<MDA	In duct
Containment	83 ft.	32	<MDA	<MDA	1.88	<MDA	In vent
Containment	83 ft.	33	<MDA	<MDA	<MDA	<MDA	Pump pedestal
Containment	83 ft.	34	<MDA	<MDA	<MDA	<MDA	In drain
Containment	83 ft.	35	<MDA	<MDA	<MDA	<MDA	In drain
Containment	83 ft.	36	<MDA	<MDA	<MDA	<MDA	Pump pedestal
Containment	83 ft.	37	<MDA	<MDA	<MDA	<MDA	Stairwell
Containment	100 ft.	38	<MDA	<MDA	<MDA	<MDA	Floor
Containment	100 ft.	39	<MDA	<MDA	<MDA	<MDA	Floor
Containment	100 ft.	40	<MDA	<MDA	<MDA	<MDA	Floor
Containment	100 ft.	41	<MDA	<MDA	<MDA	<MDA	Floor
Containment	100 ft.	42	<MDA	<MDA	<MDA	<MDA	Floor
Containment	100 ft.	43	<MDA	<MDA	<MDA	<MDA	Floor
Containment	100 ft.	44	<MDA	<MDA	<MDA	<MDA	Floor

Table 2. Results of the 2001 Radiological Survey at the Piqua, Ohio, Decommissioned Reactor Site (continued).

Location/ Building	Elevation[a]	Direct/ Smear #	Direct Reading Activity dpm/100 cm^2 Alpha	/ Beta	Removable Activity dpm/100 cm^2 Alpha	/ Beta	Remarks
Containment	100 ft.	45	<MDA	<MDA	<MDA	<MDA	On drain
Containment	100 ft.	46	<MDA	<MDA	<MDA	<MDA	In duct
Containment	111 ft.	47	<MDA	<MDA	<MDA	<MDA	Floor
Containment	111 ft.	48	<MDA	<MDA	<MDA	<MDA	Behind plenum
Containment	111 ft.	49	<MDA	<MDA	<MDA	<MDA	Inside plenum
Containment	100 ft.	50	<MDA	<MDA	<MDA	<MDA	Airlock floor
Aux. Bldg.	79 ft.	51	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	52	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	53	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	54	<MDA	<MDA	<MDA	<MDA	On drain
Aux. Bldg.	79 ft.	55	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	56	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	57	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	58	<MDA	<MDA	<MDA	<MDA	On drain
Aux. Bldg.	79 ft.	59	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	60	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	61	<MDA	<MDA	<MDA	<MDA	On drain
Aux. Bldg.	79 ft.	62	<MDA	<MDA	<MDA	<MDA	On sump cover
Aux. Bldg.	79 ft.	63	<MDA	<MDA	<MDA	<MDA	Pump
Aux. Bldg.	79 ft.	64	<MDA	<MDA	<MDA	<MDA	Floor under tank
Aux. Bldg.	79 ft.	65	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	66	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	79 ft.	67	<MDA	<MDA	<MDA	<MDA	Inside HVAC on floor
Aux. Bldg.	79 ft.	68	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	89 ft.	69	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	121 ft.	70	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	121 ft.	71	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	121 ft.	72	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	121 ft.	73	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	121 ft.	74	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	121 ft.	75	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	111 ft.	76	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	111 ft.	77	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	111 ft.	78	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	111 ft.	79	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	111 ft.	80	<MDA	<MDA	<MDA	<MDA	On vent duct
Aux. Bldg.	111 ft.	81	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	82	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	83	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	84	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	85	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	86	<MDA	<MDA	<MDA	<MDA	On floor drain
Aux. Bldg.	100 ft.	87	<MDA	<MDA	<MDA	<MDA	Floor

Table 2. Results of the 2001 Radiological Survey at the Piqua, Ohio, Decommissioned Reactor Site (continued).

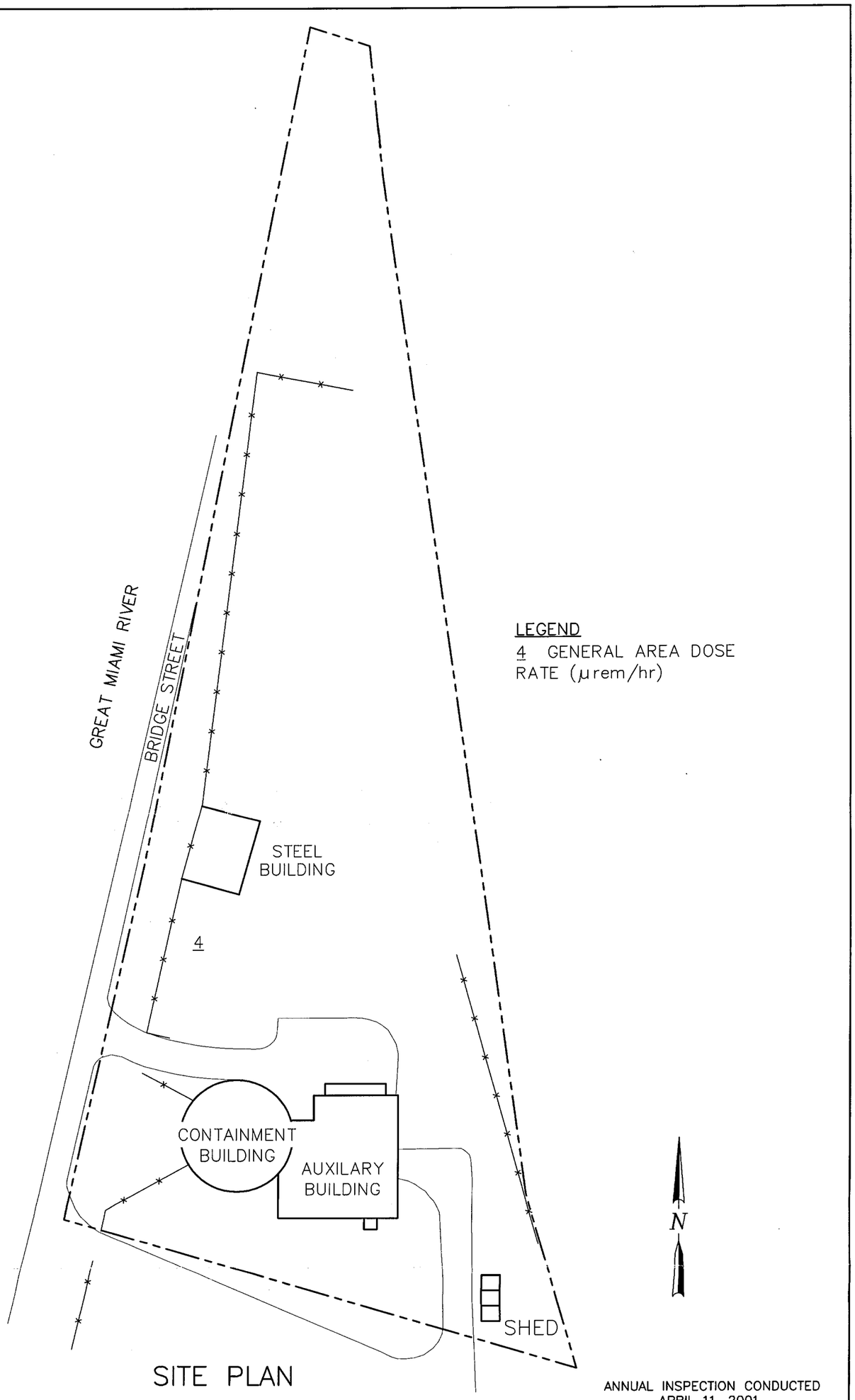
Location/ Building	Elevation[a]	Direct/ Smear #	Direct Reading Activity dpm/100 cm^2 Alpha	/ Beta	Removable Activity dpm/100 cm^2 Alpha	/ Beta	Remarks
Aux. Bldg.	100 ft.	88	<MDA	<MDA	<MDA	<MDA	On floor drain
Aux. Bldg.	100 ft.	89	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	90	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	91	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	92	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	93	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	94	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	95	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	96	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	97	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	98	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	99	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	100	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	101	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	102	<MDA	<MDA	<MDA	<MDA	Floor
Aux. Bldg.	100 ft.	103	<MDA	<MDA	<MDA	<MDA	Floor
Containment	56 ft.	104	<MDA	<MDA	<MDA	<MDA	On drain
Containment	100 ft.	105	<MDA	<MDA	<MDA	<MDA	On drain
Outside	100 ft.	106	<MDA	<MDA	<MDA	<MDA	Concrete floor
Outside	100 ft.	107	<MDA	<MDA	<MDA	<MDA	Concrete floor
Outside	100 ft.	108	<MDA	<MDA	<MDA	<MDA	Concrete floor
Outside	100 ft.	109	<MDA	<MDA	<MDA	<MDA	Concrete floor
Outside	100 ft.	110	<MDA	<MDA	<MDA	<MDA	Concrete floor
Containment	74 ft.	111	<MDA	<MDA	<MDA	<MDA	On HVAC duct

[a] Elevations are designated as feet above the lowest floor of the original plant.

key: dpm = disintegrations per minute; cm^2 = centimeters squared; MDA = minimum detectable activity; < = less than

3.0 Recommendations

On the basis of the inspection and radiological survey results, no maintenance or follow up inspection activities are required.



SITE PLAN

SCALE IN FEET

70 35 0 70 140

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

macTec-ers	U.S. DEPARTMENT OF ENERGY GRAND JUNCTION OFFICE GRAND JUNCTION, COLORADO
2001 INSPECTION DRAWING SITE PLAN PIQUA, OHIO	
DATE PREPARED: MAY 16, 2001	FILENAME: S0057500-01

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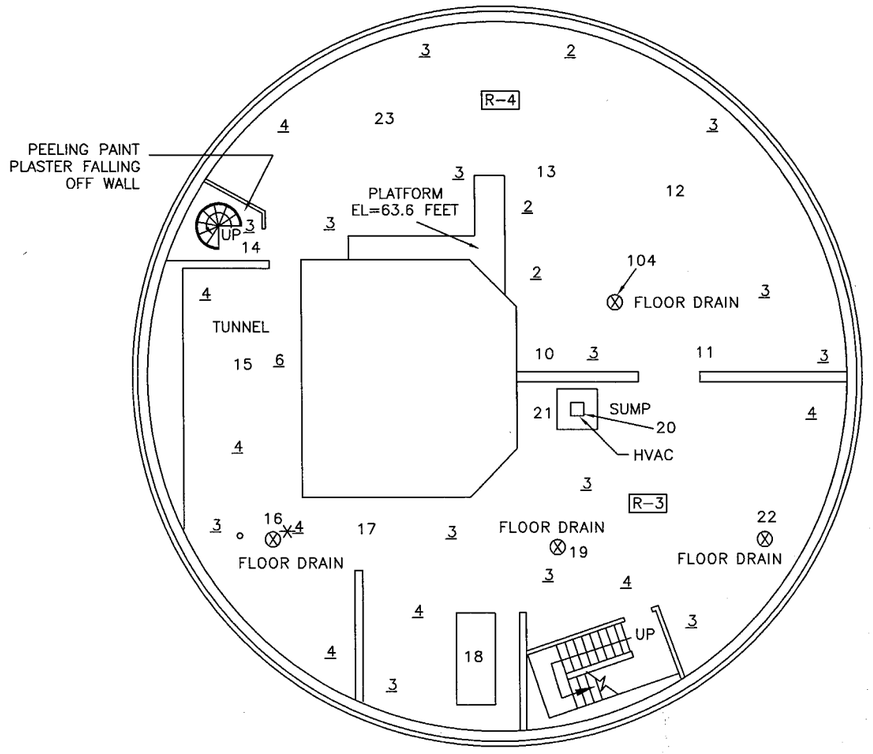

PLAN – 56 FOOT LEVEL

N

SCALE IN FEET

15 7.5 0 15 30

INSTRUMENT	L-12/43-5	L-12/44-9	WPC-9350	Bicron Micro-rem
SERIAL #	11214/12869	10602/13073	15686	18369
CAL. DUE	8-31-01	8-6-01/3-2-02	4-24-01	10-13-01
CORRECTION FACTORS	26	26	α EFF. 31.94 β EFF. 50.66	N/A
BACKGROUND	0 CPM	60 CPM	α 0.00 CPM β 4.20 CPM	3-5 μrem/hr

KEY:

NO. =GENERAL AREA DOSE RATE (μrem/hr)

~~NO.~~ =CONTACT DOSE RATE(μrem/hr)

NO. =SMEAR/DIRECT LOCATION

R-4 = ROOM NUMBER

SURVEYED BY: DATE: 4/11/2001

REVIEWED BY: DATE: 5/16/01

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

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U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE
GRAND JUNCTION, COLORADO

ANNUAL RADIOLOGICAL SURVEY RESULTS
PIQUA NUCLEAR POWER FACILITY
PIQUA, OHIO
56 FOOT LEVEL

DATE PREPARED: MAY 16, 2001

FILENAME: S0057600-01

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SERIAL #	11214/12869	10602/13073	15686	18369
CAL. DUE	8-31-01	8-6-01/3-2-02	4-24-01	10-31-01
CORRECTION FACTORS	26	26	α EFF. 31.94 β EFF. 50.66	N/A
BACKGROUND	0 CPM	60 CPM	α 0.00 CPM β 4.20 CPM	3-5 μrem/hr

KEY:

NO. =GENERAL AREA DOSE RATE (μrem/hr)

NO. =SMEAR/DIRECT LOCATION

B-1 =ROOM NUMBER

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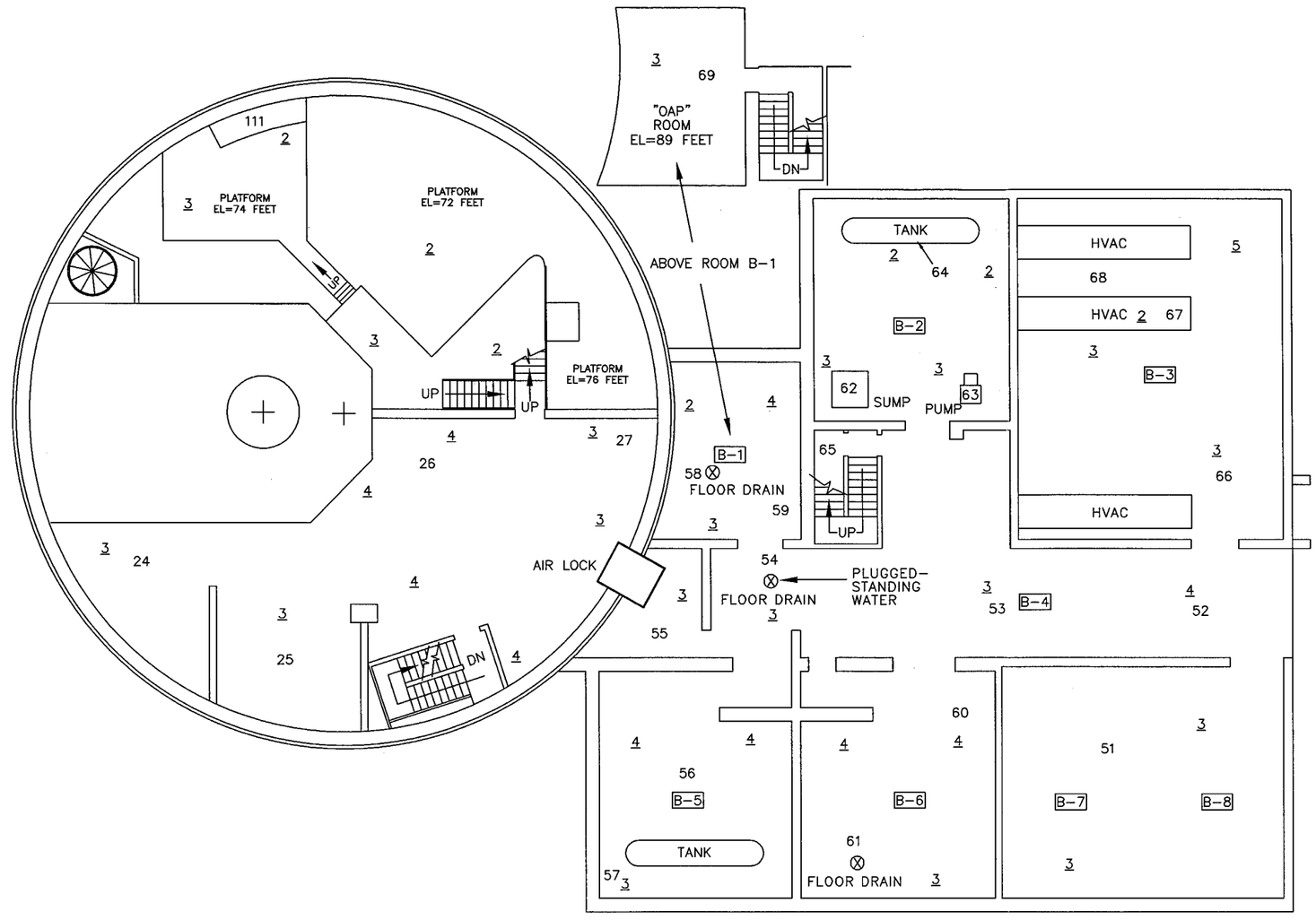
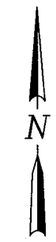
REVIEWED BY: DATE: 5/16/01





SCALE IN FEET

30 7.5 0 15 30

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

PLAN – 79 FOOT LEVEL

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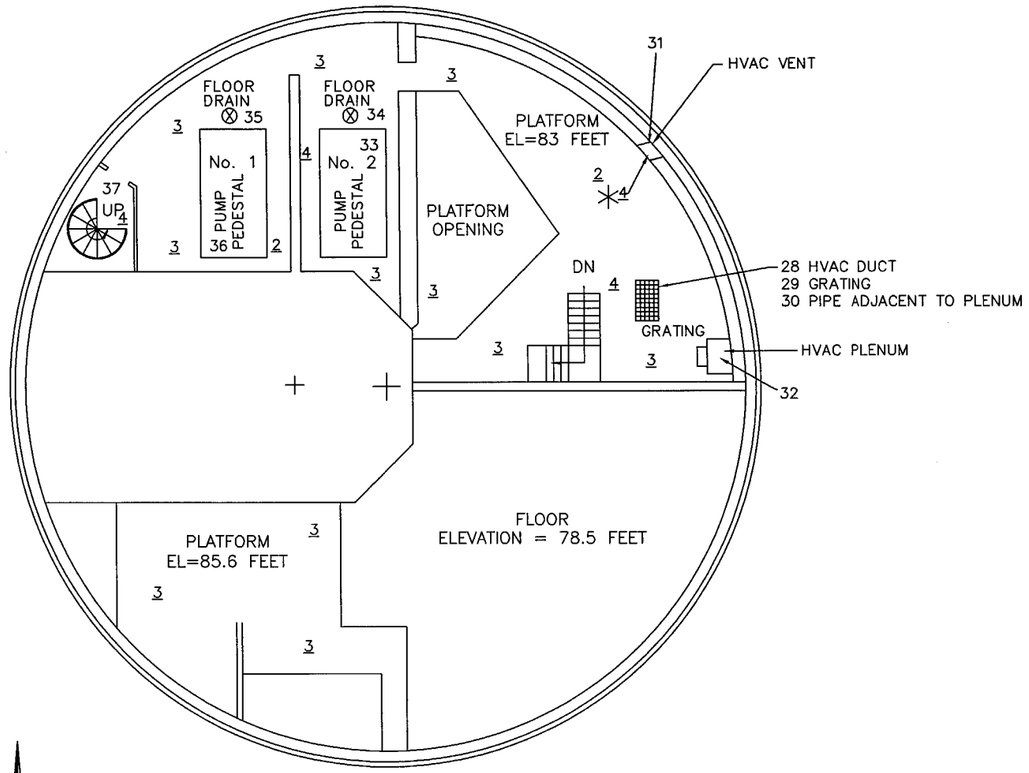
GRAND JUNCTION, COLORADO

ANNUAL RADIOLOGICAL SURVEY RESULTS
PIQUA NUCLEAR POWER FACILITY
PIQUA, OHIO
79 FOOT LEVEL

DATE PREPARED: MAY 16, 2001

FILENAME: S0057700-01



N

PLAN – 83 FOOT LEVEL

SCALE IN FEET

15 7.5 0 15 30

INSTRUMENT	L-12/43-5	L-12/44-9	WPC-9350	Bicron Micro-rem
SERIAL #	11214/12869	10602/13073	15686	18369
CAL. DUE	8-31-01	8-6-01/3-2-02	4-24-01	10-13-01
CORRECTION FACTORS	26	26	α EFF. 31.94 β EFF. 50.66	N/A
BACKGROUND	0 CPM	60 CPM	α 0.00 CPM β 4.20 CPM	3-5 μrem/hr

KEY:

NO. =GENERAL AREA DOSE RATE (μrem/hr)

~~NO.~~ =CONTACT DOSE RATE (μrem/hr)

NO. =SMEAR/DIRECT LOCATION

SURVEYED BY: DATE: 4/11/2001

REVIEWED BY: DATE: 5/16/01

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

fmactec-ers	U.S. DEPARTMENT OF ENERGY GRAND JUNCTION OFFICE GRAND JUNCTION, COLORADO
ANNUAL RADIOLOGICAL SURVEY RESULTS PIQUA NUCLEAR POWER FACILITY PIQUA, OHIO	83 FOOT LEVEL
DATE PREPARED: MAY 16, 2001	FILENAME: S0057800-01

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SERIAL #	11214/12869	10602/13073	15686	18369
CAL. DUE	8-31-01	8-6-01/3-2-02	4-24-01	10-13-01
CORRECTION FACTORS	26	26	α EFF. 31.94 β EFF. 50.66	N/A
BACKGROUND	0 CPM	60 CPM	α 0.00 CPM β 4.20 CPM	3-5 μrem/hr

KEY:

NO. =GENERAL AREA DOSE RATE (μrem/hr)

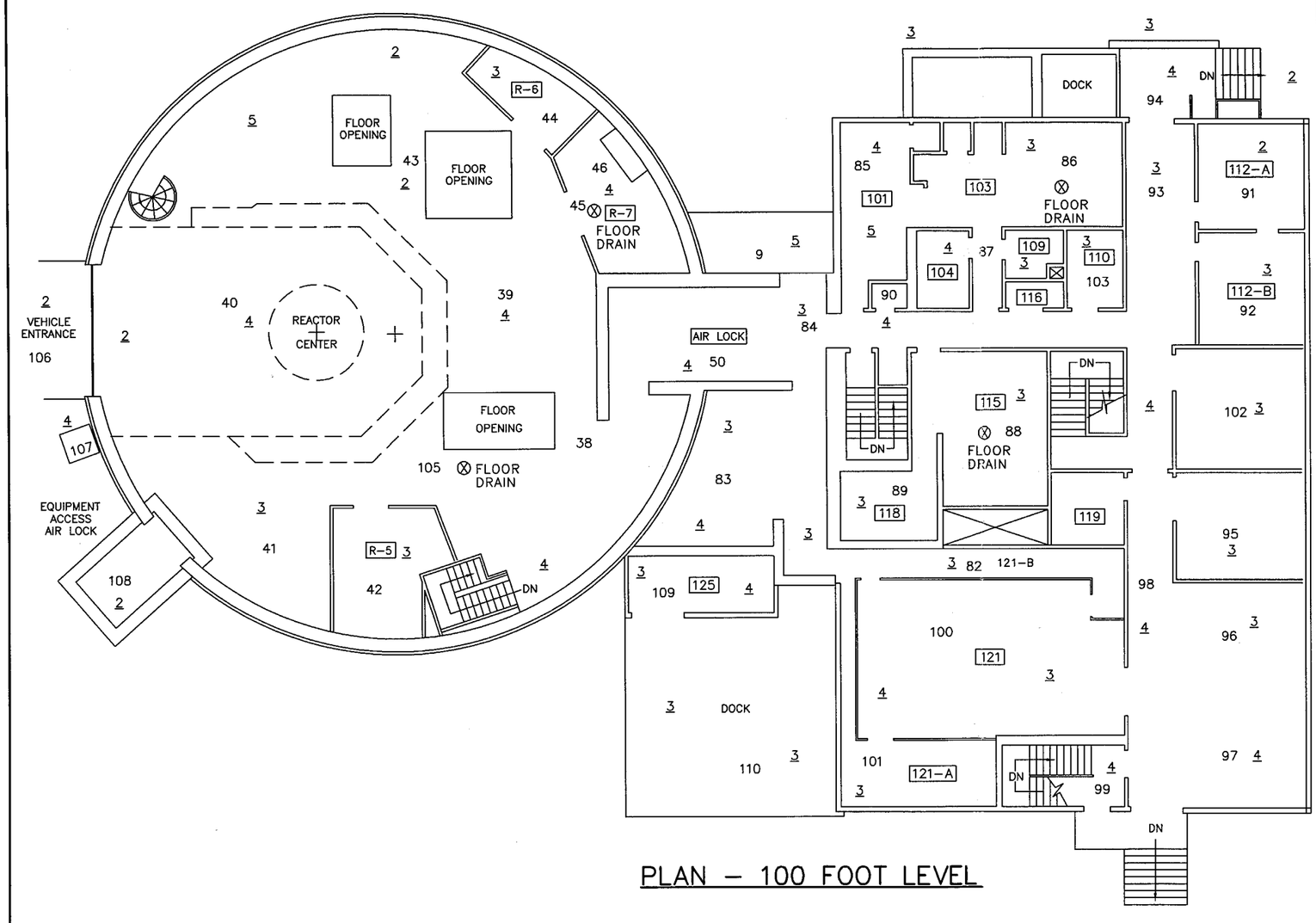
⊗NO. =SMEAR/DIRECT LOCATION

[302] =ROOM NUMBER

93 =SMEAR/DIRECT LOCATION

SURVEYED BY: DATE: 4/11/2001

REVIEWED BY: DATE: 5/16/01



PLAN – 100 FOOT LEVEL

N

SCALE IN FEET

15 7.5 0 15 30

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

mactec-ers

U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE
GRAND JUNCTION, COLORADO

ANNUAL RADIOLOGICAL SURVEY RESULTS
PIQUA NUCLEAR POWER FACILITY
PIQUA, OHIO
100 FOOT LEVEL

DATE PREPARED: MAY 16, 2001

FILENAME: S0057900-01

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INSTRUMENT	L-12/43-5	L-12/44-9	WPC-9350	Bicron Micro-rem
SERIAL #	11214/12869	10602/13073	15686	18369
CAL. DUE	8-31-01	8-6-01/3-2-02	4-24-01	10-13-01
CORRECTION FACTORS	26	26	α EFF. 31.94 β EFF. 50.66	N/A
BACKGROUND	0 CPM	60 CPM	α 0.00 CPM β 4.20 CPM	3-5 μrem/hr

KEY:

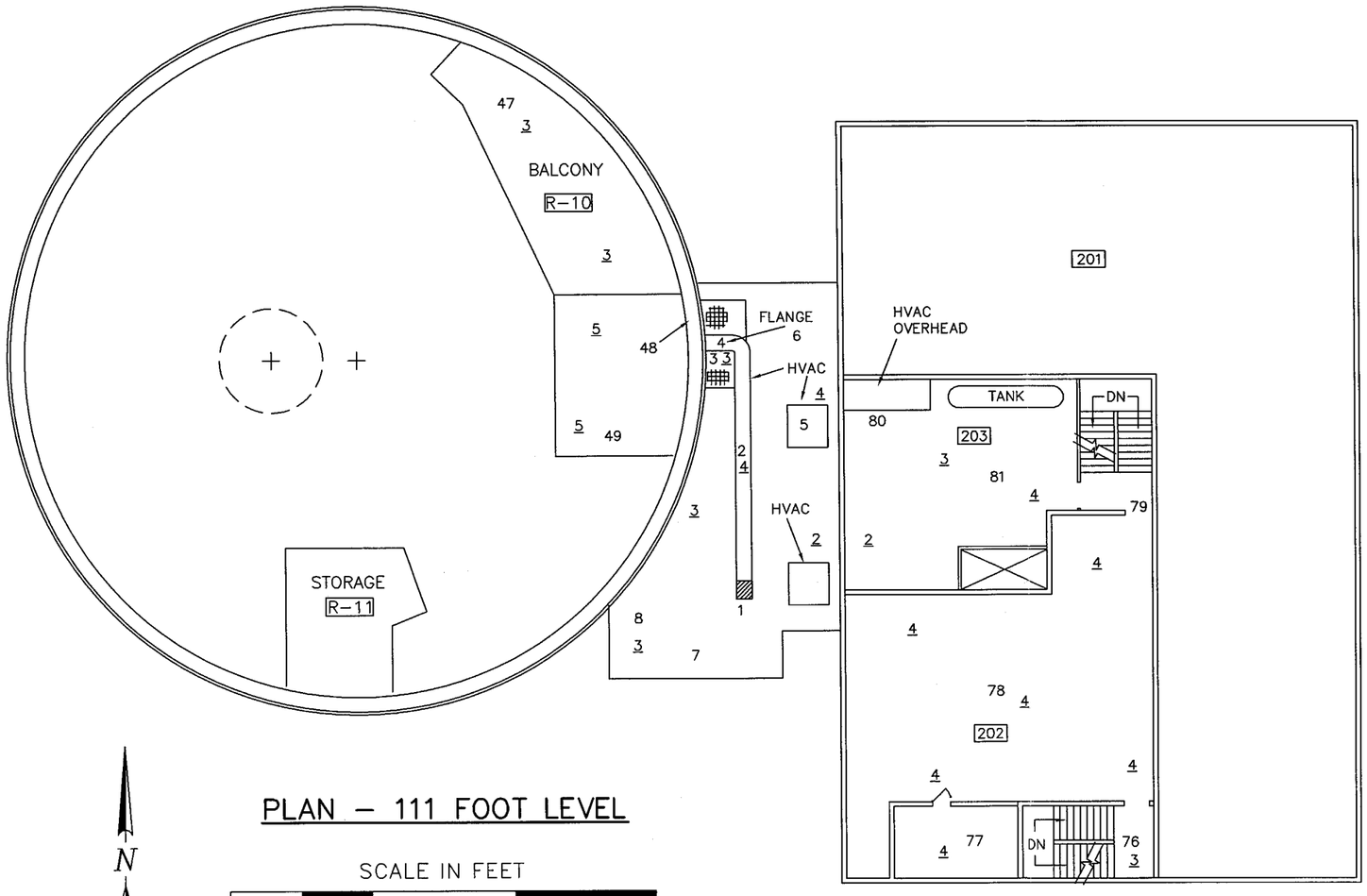
NO. =GENERAL AREA DOSE RATE (μrem/hr)

NO. =SMEAR/DIRECT LOCATION

302 =ROOM NUMBER

SURVEYED BY: DATE: 4/11/2001

REVIEWED BY: DATE: 5/16/01



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PLAN – 111 FOOT LEVEL

SCALE IN FEET

15 7.5 0 15 30

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

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U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE
GRAND JUNCTION, COLORADO

ANNUAL RADIOLOGICAL SURVEY RESULTS
PIQUA NUCLEAR POWER FACILITY
PIQUA, OHIO
111 FOOT LEVEL

DATE PREPARED: MAY 16, 2001

FILENAME: S0058000-01

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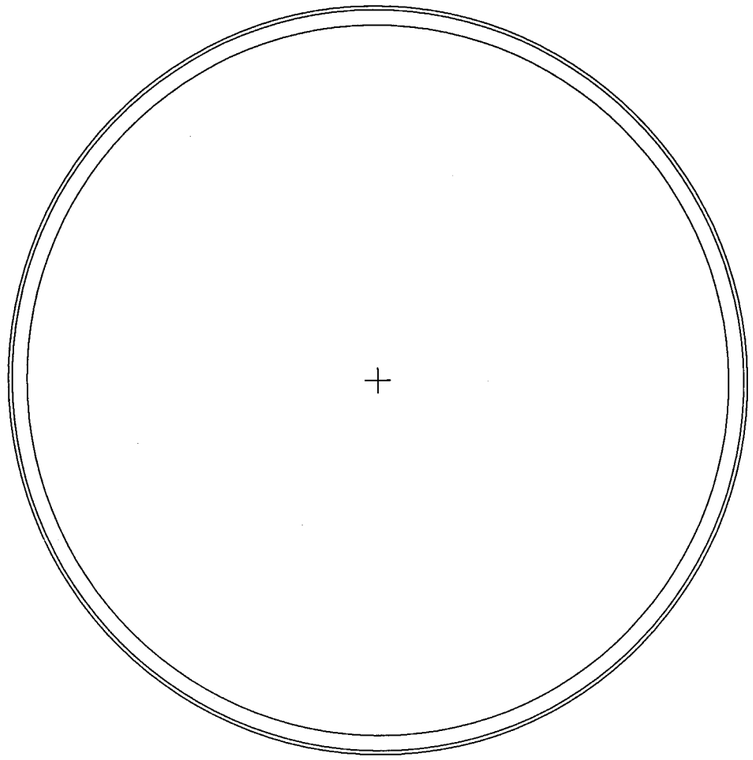

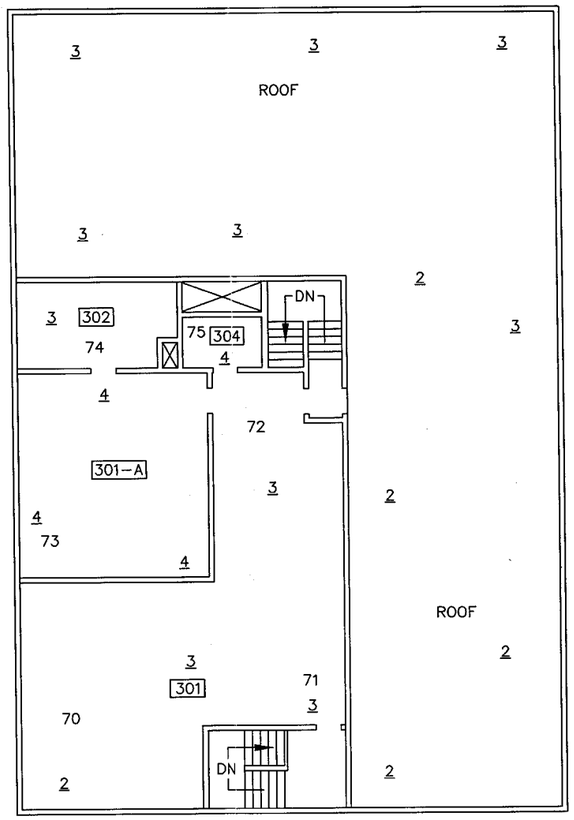

INSTRUMENT	L-12/43-5	L-12/44-9	WPC-9350	Bicron Micro-rem
SERIAL #	11214/12869	10602/13073	15686	18369
CAL. DUE	8-31-01	8-6-01/3-2-02	4-24-01	10-13-01
CORRECTION FACTORS	26	26	α EFF. 31.94 β EFF. 50.66	N/A
BACKGROUND	0 CPM	60 CPM	α 0.00 CPM β 4.20 CPM	3-5 μrem/hr

KEY:

NO. =GENERAL AREA DOSE RATE (μrem/hr)

NO. =SMEAR/DIRECT LOCATION

300 =ROOM NUMBER

SURVEYED BY: DATE: 4/11/2001

REVIEWED BY: DATE: 5/16/01

N

PLAN – 121 FOOT LEVEL

SCALE IN FEET

15 7.5 0 15 30

ANNUAL INSPECTION CONDUCTED
APRIL 11, 2001

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macTec-ers	U.S. DEPARTMENT OF ENERGY GRAND JUNCTION OFFICE GRAND JUNCTION, COLORADO
ANNUAL RADIOLOGICAL SURVEY RESULTS PIQUA NUCLEAR POWER FACILITY PIQUA, OHIO 121 FOOT LEVEL	
DATE PREPARED: MAY 16, 2001	FILENAME: S0058100-01